

ABSTRACT

Problems of acceleration of drying of electrolyte membrane and local reaction, etc. can be properly coped with to attain the stabilization of performance of fuel cell.

There are provided a fuel cell 121 which generates electric power from a fuel gas and an oxidizing agent gas, a fuel gas feed pipe 161 and a first switch valve 129 as fuel gas supplying unit which supplies the said fuel gas into the said fuel cell on the anode side thereof, an oxidizing gas supplying pipe 162 and a second cut-off valve 131 as oxidizing agent gas supplying unit which supplies the said oxidizing agent into the said fuel cell on the cathode side thereof, a raw material gas supplying pipe 151 and a third switch valve 143 as raw material gas supplying unit which supplies raw material of the said fuel gas into the fuel cell and a control portion 127 which controls the supply of the said fuel gas, the supply of the said oxidizing agent and the supply of the said raw material and the control portion 127 controls during the starting of electricity generation of the fuel cell 121 such that the said raw material gas supplying unit purges the fuel cell 121 at least on the cathode side thereof with the said raw material gas before the oxidizing agent gas supplying unit and the fuel gas supplying unit supply the fuel gas and the said oxidizing agent gas into the fuel cell 121,

respectively.